

## **Purchasing Receipts**

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Uni	Aging Days
PO038581	TWM001- VU	4	1	Net 30		Aluminum Tube 3.125 X .058W : MATERIAL: 6061- T6/T62/T6510/T6510 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B211 receive ft				100	12/14/2017	100		S020706	Stock	12/12/2017	\$ 2.50 / pcs	C
		2			M6061T6T0.375W.058	MATERIAL: 6061- Tobe .375 X.058W: MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-200/8 OR QQ-A-20/8 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B210 OR ASTM B210 OR ASTM B241 receive						100		5020707	Stock	12/12/2017	\$ 2.15 / pcs	0
		3			T S T V C A A A	3061-T6 Round Tube .500 X.058W : MATERIAL: 6061- IG:/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ225/8 OR AMS 080 OR AMS 40 82 R AMS 4083 OR SSTM B241 receive						160		\$020708	Stock 1	2/12/2017	5 1.75 / pcs	0
		4			M 33 S TT A:	04 Round Tube 000 X.049W: IATERIAL: AISI 04/316 SS EAMLESS ROUND UBING AS PER STM A213 OR SME SA213 OR STM A269 receive				60		60	S	020709 S	tock 1:	2/12/2017 S	2.80 / pcs	0
									Total:	360		360						

Plex 12/12/2017 1:36 PM Dart Dubois Pascal





Packing gil2

ORDER NO.: 60645377 FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT:

CN K6A 1K7

SOLD TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

37.599 REQ.DATE: 12/14/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

CANADA

HAWKESBURY ON

SALESPERSON: DONNA SMALLEY NET 30 DAYS

12/07/17

TERMS: F.O.B.:

SHIPPING POINT

VIA: FREIGHT:

SHIP BY:

COMMON CARRIER PREPAID

CÚST ORD NO.: PO038581

RELEASE NO.:

RECEIVING PHONE:

LENGTH

LINE ITEM DESCRIPTION 0001 41723 (D6061-T6 5/16) OD X .058

WIDTH

12 FT ML

CLN#

ORD QTY 108.000 FT

108.000 FT INVOICE OTY

SHIPPED QTY 108.000 FT WT

PCS

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00 PO:49373738 HT 2289533 PC: 9 CUSTOMER QTY: UOM

MLT:UNITED STATES MFG:UNITED STATES SLB/CL:461694

0002 41952 D6061-T6 3/8 OD X .058 WA

12 FT ML

CLN#

ORD QTY 108.000 FT

INVOICE QTY 108.000 FT SHIPPED QTY 108.000 FT

WT

PCS

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

Export License: NLR Expiration Date: 0/00/00

ECCN: EAR99 Export License: NLR PO: 49376296 HT F002504860001 PC: 9 CUSTOMER QTY: MLT:UNITED STATES MFG:UNITED STATES

SLB/CL:224194

0003 42276 (D6061-T6 1/2 OD X .058 WA

12 FT ML

CLN#

ORD QTY 108.000 FT

INVOICE QTY

108.000 FT

SHIPPED QTY 108.000 FT

WT10.225

PCS

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REOUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00

PO: 49378297 HT: F002542390002 PC: 9 CUSTOMER OTY:

UOM

MLT:UNITED STATES MFG:UNITED STATES SLB/CL:224471

no

http://www.twmetals.com/invoice-terms.html





# Packing Slip

ORDER NO.: 60645377 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 37.599 REQ.DATE: 12/14/17 CONFIRMED

SOLD TO:

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKESBURY ON

HAWKSBURY ON

CANADA

CN K6A 1K7

ONTARIO CANADA

CN K6A 1K7

SALESPERSON: DONNA SMALLEY

SHIP BY: 12/07/17

TERMS: F.O.B.:

NET 30 DAYS

0004 36506 SMLS CD 304/L A269 1/2 OD X .049 WA

VIA: FREIGHT: COMMON CARRIER

PREPAID

CUST ORD NO.: PO038581

SHIPPING POINT

RELEASE NO.:

RECEIVING PHONE:

WIDTH

LENGTH 20' ML

ORD QTY

LINE ITEM DESCRIPTION

INVOICE QTY SHIPPED QTY WT 60.000 FT 60.000 FT 14.155

VT

PCS

CLN#

60.000 FT

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00 PO:49336439 HT:YX1506712 PC: 3 CUSTOMER QTY: UOM SLB/CL:12-19

BROKERS KUEHNE AND NAGEL LTD

----- PACK INFO -----PKGS GRS WEIGHT WIDTH LENGTH HGHT 1.000 33.444 4.0000 150.0000 4

AREA TYPE OF PKG

NEW PEN CARTON Orders In Package - 1

Box No - TWPK17009810

NEW PEN CARTON Orders In Package - 1 1.000 34.155 3.0000 248.0000 Box No - TWPK17009811

3

2.000 67.599

BY: Tom Weaver

RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED





# Packing Slip

ORDER NO.: 60645377 FROM: CRAN

PAGE 3

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON

CANADA

CN K6A 1K7

SALESPERSON:

TERMS: F.O.B.:

CUST ORD NO .:

VIA:

FREIGHT:

RELEASE NO.:

RECEIVING PHONE:

PO038581 COMMON CARRIER

SHIPPING POINT

DONNA SMALLEY

NET 30 DAYS

PREPAID

37.599 REQ.DATE: 12/14/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON ONTARIO CANADA

CN K6A 1K7

SHIP BY:

12/07/17

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

#### "CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.



FAX: 6096552603

Invoice#: 60645377

Ship Via: COMMON CARRIER

# COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD

1270 ABERDEEN ST HAWKESBURY ON

CANADA

CN K6A 1K7 C

Contact: CHANTAL

16136321053

Freight Forwarder/Intermediate Ship To:

Invoice Date: 12/07/17

Ship Date: 12/07/17

Payment Terms: NET 30 DAYS

Ship To/Final Destination:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA CN K6A 1K7

ITEM# / LINE# 41723	DESCRIPTION D6061-T6 5/16 OD X .058 WA	QUANTITY 108.000 FT	UNIT VALUE \$ 2.5000 I	SUBTOTAL
1	ALUMINUM TUBE ROUND	0 IN 9.000 PC		
	PART NUMBER:			
	ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS			
	NET WGT: 5.897 LBS COUNTRY OF MFG: UNITED STATES	2		
41952	D6061-T6 3/8 OD X .058 WA	108,000 FT 0 IN	\$ 2.1500 H	TT \$ 232.2
2	ALUMINUM TUBE ROUND	9.000 PC		
	PART NUMBER:			
	ECCN: EAR99 SCHEDULE B:7608.20.0030			
	EXPORT LICENSE	NUMBER: NLR		
	EXPIRATION	ON DATE: 00/00/	00	
	TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC.			
	THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.	1		CONTINUE



FAX: 6096552603

Invoice Date: 12/07/17

Ship Date: 12/07/17

27 ENGLEHARD DRIVE Invoice#: 60645377

MONROE TWP NJ 08831 Cust. PO#: P0038581
Incoterms: SHIPPING POINT
Frt. Terms: PREPAID

Ship Via: COMMON CARRIER

#### COMMERCIAL INVOICE

Tel: 609-655-4120

Sold To: DART AEROSPACE LTD

1270 ABERDEEN ST HAWKESBURY ON

CANADA

CN K6A 1K7 C

CANADA  Contact:  Freight F	CN K6A 1K7 C  CHANTAL  16136321053  Orwarder/Intermediate Ship To:	Payment Terms:  Ship To/Final De  DART AEROSPACE I 1270 ABERDEEN ST HAWKSBURY ON ONTARIO CANADA	estination: LTD	
ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	ALUM PIPE/TUBE - SEAMLESS  NET WGT: 7.322 LBS  COUNTRY OF MFG: UNITED STATES			
42276	D6061-T6 1/2 OD X .058 WA ALUMINUM TUBE ROUND	108.000 FT 0 IN 9.000 PC	\$ 1.7500 FT	\$ 189.00
	DADE MIMDED			

	NET WGT: 7.322 LBS			
	COUNTRY OF MFG: UNITED STATES			
42276	D6061-T6 1/2 OD X .058 WA	108.000 FT 0 IN	\$ 1.7500 FT	\$ 189.00
3	ALUMINUM TUBE ROUND	9.000 PC		
	PART NUMBER:			
	ECCN: EAR99 SCHEDULE B:7608.20.0030 ALUM PIPE/TUBE - SEAMLESS			
	NET WGT: 10.225 LBS COUNTRY OF MFG: UNITED STATES			
36506	SMLS CD 304/L A269 1/2 OD X .049 WA	60.000 FT 0 IN	\$ 2.8000 FT	\$ 168.00
4	STAINLESS STEEL TUBE ROUND	3.000 PC		
	PART NUMBER:			
	EXPORT LICENSE	NUMBER: NLR		
		ON DATE: 00/00/	00	
	TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC.			
	THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND			CONTINUE
	REGULATIONS. Page	2	L,	



27 ENGLEHARD DRIVE

FAX: 6096552603

Ship Via: COMMON CARRIER

#### COMMERCIAL INVOICE

Tel: 609-655-4120

Sold To: DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

CANADA

CN K6A 1K7 C

Contact: CHANTAL

Freight Forwarder/Intermediate Ship To:

16136321053

Payment Terms: NET 30 DAYS

Ship To/Final Destination:

Invoice Date: 12/07/17

Ship Date: 12/07/17

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA CN K6A 1K7

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	ECCN: 2B999.g SCHEDULE B:7304.41.0000 S/S PIPE/TUBE ROUND SMLS W/OD =3"</td <td></td> <td></td> <td></td>			
	NET WGT: 14.155 LBS COUNTRY OF MFG: CHINA			
	QUANTITY AND TYPE OF BOXES:			
	1 CARTON			
	150.0000 X 4.0000 X 4.0000 TOTAL WGT: 33.444 LBS GROSS WGT: 33.444 LBS			
	1 CARTON		1	
	248.0000 X 3.0000 X 3.0000 TOTAL WGT: 34.155 LBS GROSS WGT: 34.155 LBS			
	EXPORT LICENSE	NUMBER: NLR	00	
	TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC.			
	THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.	•	Sales Tax US Dollars	.00 859.20



PH: 5857685600 FX: 15857685601

#### ORDER ACKNOWLEDGEMENT

SOLD TO: DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

CANADA

CN K6A 1K7

SHIP TO: DART AEROSPACE LTD

1270 ABERDEEN ST HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

PH: 613-632-9577 FX: 16136321053

Order Number 60645377

ORIG. QUOTE# 12223601

Contact: CHANTAL

Customer PO Number	PO038581
Order Date	12/06/17
F.O.B. Point	SHIPPING POINT
Freight Terms	PREPAID
Ship Via	COMMON CARRIER
Terms	NET 30 DAYS

Customer Account Number 1203820

PAGE 1 OF 1

Item No.	Quantity	ALEXAL Description National Actions	Unit Price		Extended Price	Est Del Date
41723	108 FT	D6061-T6 5/16 OD X .058 WA LENGTH 12 FT ML	2.5000 FT	WGT	270.00 5.897	12/14/17
41952	108 FT	D6061-T6 3/8 OD X .058 WA LENGTH 12 FT ML	2.1500 FT	WGT	232.20 7.322	12/14/17
42276	108 FT	D6061-T6 1/2 OD X .058 WA LENGTH 12 FT ML	1.7500 FT	WGT	189.00 10.225	12/14/17
36506	60 FT	SMLS CD 304/L A269 1/2 OD X .049 WA LENGTH 20' ML	2.8000 FT	WGT	168.00 14.155	12/14/17
-						
		SALES TAX TOTALS WEIGHT (LBS)			859.20	

This Order Acknowledgement confirms the requirements that you specified when you placed your order with TW Metals. The order is subject to TW Metals' Terms and Conditions of Sale, a copy of which is incorporated herein by reference and available at www.TWMetals.com, and any conflicting or additional terms and conditions appearing or referred to in your order, shall have no effect.

YOUR ORDER IS GREATLY APPRECIATED AND WILL RECEIVE OUR PROMPT AND CAREFU	FIII ATTENTION
--	----------------

Ву

DONNA SMALLEY

Signature:



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

**PURCHASE ORDER** PO038581

Tel (613) 632-5200

Supplier: TWM001-VU

TW Metals

PO Box 933014

Altanta, GA 31193-3014 USA

Phone: 585 768 5600

Fax: 585 768 5601

PO No:

PO038581

PO Date:

12/6/17

Due Date:

12/14/17

**Purchase Order** 

Revision:

**Revision Date: Ship-To Contact:** 

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Ground

**Pymt Terms:** 

Net 30

Freight Terms:

**Special Comments:** 

24	_	-	
п	е	m	15

Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M6061T6T0.3125W.058	Aluminum Tube .3125 X .058W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	12/14/17	100 pcs	0 pcs	100 pcs	\$2.50/pcs	\$250.00
	M6061T6T0.37\$W.058	6061-T6 Round Tube .375 X.058W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	12/14/17	100 pcs	0 pcs	100 pcs	\$2.15/pcs	\$215.00
3	5020708	6061-T6 Round Tube .500 X.058W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	12/14/17	100 pcs	0 pcs	100 pcs	\$1.75/pcs	\$175.00
4	5020709	304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	12/14/17	60 pcs	0 pcs	60 pcs	\$2.80/pcs	\$168.00
							G	rand Total:	\$808.00

Plex 12/6/17 1:35 PM dart.lavoie.chanta

#### **Order Notes**

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/6/17 1:35 PM dart.lavoie.chantal



#### PRECISION TUBE CO.

287 WISSAHICKON AVE. NORTH WALES PA 19454

CERTIFIED TEST REPORT

PRECISION TUBE P/N CUSTOMER PURCHASE ORDER NO. CUST. ORD. NO 24A031250580005 461694 M 49373738 LINE 001 SHIP: TW METALS SOLD: TW METALS 175 TUBEWAY TO 175 TUBEWAY TO FOREST PARK, GA 30298 FOREST PARK, GA 30298 UNITED STATES UNITED STATES OTY. SHIPPED DATE SHIPPED DESCRIPTION QUANTITY ORD. 08/08/17 METAL - 6061 ALUM 3648 FT 3500 FT TEMPER - T6 SPEC - AMS 4082P ASTM-B-210-12 AMS-WW-T-700/6C LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS .3125 +.0030 -.0030 OD ID .0580 +.0040 -.0040 WALL MECHANICAL PROPERTIES **AVERAGE** ELONGATION TENSILE YIELD ROCKWELL IN 2 INCHES GRAIN SIZE STRENGTH SAMPLE # STRENGTH HARDNESS (MM.) (P.S.I.) (P.S.I.) (8) 1 46,136 40,185 18 TEST REPORTS DESTRUCTIVE TESTS Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES NON-DESTRUCTIVE TESTS EDDY CURRENT: PASS CHEMICAL COMPOSITION HEAT: ALLOY: 6061 TRACEABILITY #: 2289533 RAW MATL VENDOR: PTC11774 - KAISER ALUMINUM Cu Mn Cr Zn Ti Ma 0.40 0.15 0.80 0.04 Rem. Max 0.80 0.70 0.40 0.15 OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL 1.20 0.35 0.25 0.15

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundry containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA QMS Registered to ISO 9001; 2008

Matthew Flynn-Hepford Quality Engineer 08/08/17

Page: 1 of 1





#### CERTIFIED TEST REPORT

http://Online.KalserAluminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND. WA 99352

CUSTOMER PO NUMBE		CUSTOMER	PART NUMBER:	PRODUCT DESCRIPTION	l:			
PTC11774 SPIRI		SPIRIT-S	371850	5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT				
KAISER ORDER NUMBE	R: UNE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
321818	001		05/26/2017	50751-362	6061	0		
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAWDAF/THKNS:	WIDTH:	LENGTH:		
8874.000 LB	1547.000	PCS	005368		1	13.08#		
SHIP TO: PRECISION TUB 287 WISSAHICK N. WALES, PA 1	ON AVENUE			MUELLER INDUS PRECISION TUBE 8285 TOURNAME STE. 150 MEMPHIS, TN 38	i	(SION 1084 CO		
			Astual Dh	voicel Proportion	:	APPR		

# **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
50751-362	0001	0001	18.3	5.6	26.7	N/A	N/A	N/A
50751-362	0001	0002	17.9	5.3	28.1	N/A	N/A	N/A
50751-362	0001	0003	18.6	6.3	25.0	N/A.	N/A	N/A
50751-362	0001	0004	18.5	5.8	24.9	. N/A	N/A	N/A
50751-362	0001	0005	19.0	6.5	24.6	N/A	N/A	N/A
50751-362	0001	0006	18.7	6.2	25.8 .	N/A	N/A	N/A
50751-362	0001	0007	18.2	5.5	27.5	N/A	N/A	N/A
50751-362	0001	8000	18.0	5.5	25.9	N/A	N/A	N/A
50751-362	0001	0009	18.3	5.8	24.9	N/A	N/A	N/A

# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
										-			
Maximum												0.05	.15
Minimum		10.00							NA	NA 00		0.00	.0
A20304		.31		.05				.03	.00	.00	.00	.01	.02
A20302	.58	.29	. 23	.05	. 99	.09	.05	.02	.00	.00	.00	.01	.02

#### Applicable Requirements:

ASTM-B241-16 NON-STENCILED ASTM-B221-14 ASTM-B345-11 AMS-QQ-A-200/8A TYPE I UNS#A96061 Also conforms to EN 10204 3.1

#### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

TEST REPORTS ACCEPTED BY 49373738 AUG 1 4 2017

Page 1 of 2

Plant Serial: 00016205 Kaiser Order Number: 321818

Line Item: 001

TW METALS





#### **CERTIFIED TEST REPORT**

http://Online.KajserAluminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND, WA 99352

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the j description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

TEST REPORTS ACCEPTED BY

... AUG 1 4 2017

TW METALS

Plant Serial: 00016205 Kaiser Order Number: 321818



#### FABRICATED PRODUCTS

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER. AZ 85226

# CERTIFIED TEST REPORT

CUSTOMER PO NUMBER:		CUSTOMER I	PART NUMBER:	PRODUCT DESCRIPTION:						
M49376296-1		41952	٠.	Drawn Seamless Ti						
KAISER ORDER NUMBER:	LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:				
224194	001		09/23/2017	F00250486	6061 (	T6				
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
474.000 LB	585.000 F	PCS	226892			12.000 FT				
SHIP TO:				SOLD TO:						
TW-METALS INC 235 WEST TUBEW CAROL STREAM, I	AY DRIVE		2 WW W 4	TW METALS INC 760 CONSTITUTIO SUITE 204 EXTON, PA 19341						

# **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00250486	0001	) 1	48.0	41.5	17.0	N/A	N/A	N/A
	_							

# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum									NA	NA	NA	0.00	0.00
D20419		.27	.21	.04	.98	.09	.05		.00	.00	.00	.01	.02

# Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0580"; Round @ AMS4082P AMS-WW-T-700/6C ASTM B210-12
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



#### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).

Plant Serial: 00026215

Kaiser Order Number: 224194





#### **CERTIFIED TEST REPORT**

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



Plant Serial: 00026215 Kaiser Order Number: 224194



# **CERTIFIED TEST REPORT**

http://Online.KajserAluminum.com

#### FABRICATED PRODUCTS

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER. AZ 85226

CHANDLEIN, AZO				Inchilor proopintion							
CUSTOMER PO NUMBER:		CUSTOMER	PART NUMBER:	PRODUCT DESCRIPTION:							
M49378297-1		42276			Drawn Seamless Tube/Pipe						
KAISER ORDER NUMBER	LINE ITEM:	-	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:					
224471	001		11/07/2017		6061	(T6 /					
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:					
463.000 LB	406.000 F	PCS	227417			12.000 FT					
SHIP TO:				SOLD TO:							
TW METALS INC 235 WEST TUBEW CAROL STREAM,			or .	TW METALS INC 760 CONSTITUTION SUITE 204 EXTON, PA 19341 U							

# **Actual Physical Properties**

Б	REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND	
1	700254239	0001	1	46.6 44.8	40.1	18.0 17.0	N/A N/A	N/A N/A	N/A N/A	

# Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum Minimum D0674A	0.80	0.70	0.40 0.15	0.15 0.00 .05	1.20	0.35 0.04 .09	0.25 0.00 .04	0.15 0.00 .03	NA NA .00	NA NA .00			0.15 0.00 .02

# Applicable Requirements:

Description: OD: 0.5000"; Wall: 0.0580"; Round @ AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005 No Weld Repair. Mercury Free.



# Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00026618 Kaiser Order Number: 224471



KAISER ALUMINUM

6573 W. WILLIS ROAD CHANDLER, AZ 85226

FABRICATED PRODUCTS, LLC

# CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

# CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



Plant Serial: 00026618 Kaiser Order Number: 224471

#### MILL TEST REPORT

ALS-Carol St	ream			Cer	tificate N	lo.: 16-1-92				
			Date of Issue.: 2016.1.5							
-		Specifi								
Steel Seamle	SS Tubes	Specin	cattorp.							
	- A									
Heat	Number		Number Dimensi			ns	P			eet
YX1506-712		12-1	12-19 (1/2" x 0.049" x 20'					2300	46	,000
	Che	mical (	Composit	ion b	y Weight	(%)				
С	Mn	P	S		Si	Cr		Ni	Mo	Co
≤0.035	€2.00	≤0.0	45 ≤0.	030	≤1.00	18.00-20.00	8.0	0-12.00	-	
0.013	0.65	0.03	2 0.0	02	0.32	18.28		8.05	-	
0.017	0.61	0.03	0.002		0.28	18.31		8.55	-	
and the second		Me	chanical	Prop	erties					
Elong	ation (% in 2'	')	T	ensile	Strength	(PSI)				PSI)
<del> </del>	≥35			≥75,000			≥30,000			
	63/64								-	P.M.I.
1		Ha	rdness	Co	ld Bend Test	Flaring Test	Fla	Test	Test	Test
	•	HF	B≤80		-	22%			•	-
	-		7/79		-	Passed	1	Passed	-	OK
Results  Test Item Eddy Current Test					trasonic Test	0	IVIACIO			
ASTM E 426					•	ASTM A26	52 E	End Cut		earance
110						OK		OK		OK
	C Solution Steel Seamles  Heat  YX1:  C Solution Solution Seamles  C Solution Seamles  Elong  Reduction Z  Eddy C  AST	Heat Number  YX1506-712  Che  C Mn  ≤0.035 ≤2.00  0.013 0.65  0.017 0.61  Elongation (% in 2')  ≥35  63/64  Reduction of Area  Z (%)	No.: M49336439   Steel Seamless Tubes	No.: M49336439   Steel Seamless Tubes   Specifications:	Date	Date of Issue	Date of Issue.: 2016.1.5			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-152

#### Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

Jomes Ch.

James Shi / Manager Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China





### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M30	140.200W.049	ро/ватсн no.: <u>038581/50107</u> 6
DATE:	DEC 1 2 2017	,
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	011	THICKNESS ORDERED: .500 THICKNESS RECEIVED: .500 SHEET SIZE ORDERED:
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	YM	
CORRECT FINISH	ON	
CORROSION	YM	
CORRECT GRAIN DIRECTION	(Y) N	
ORRECT MATERIAL PER M-DRAWING	(Y) N Aston	4213

Heat # YX 1506712

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
ĘF	RECORD RES	ULTS BELOV	N		
	HRC	HRB	DURA	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

0

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testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAG 38	SIGNED OFF BY:
DATE:	DEC 1 2 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CORRECT THICKNESS

PHOTO REQUIRED

CORRECT REF # TO LINK CERT

CORRECT MATERIAL IDENTFICATION

CORRECT M# ON THE MATERIAL

DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS REQUIRE AN EXTRUSION REPORT

DELEASE BAIRAS ALD

PURCHASE MATERIAL: AISL304/346 SS SEAMLESS ROUND TUBING SPECIFICATION: ASTM A213 DR ASME SA213 OR ASTM A269

**B** 

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SPECIFICATION CONTROL DRAWING

 WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

 OD (IN)
 PERMISSABLE

 OD TOL. (IN)
 WALL TOL.

 UP TO ½.
 ±0.005
 ±15%

 ½ TO 1½.
 EXCL.
 ±0.005
 ±10%

 ½ TO 5½.
 EXCL.
 ±0.010
 ±10%

 5½ TO 8, EXCL.
 ±0.030
 ±10%
 ±10%

 5½ TO 8, EXCL.
 ±0.030
 ±10%
 ±10%

5% TO 8, EXCL. ±0.030
M304TR[D,DDD]W,TTT

WALL

PART NUMBER:

U

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES AND ". TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR0.375W.065

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>M606</u> DATE:				158	PO / BATCH	i no.: <i>038(</i>	58 V Sc20
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	91,			THIC			
DESCRIPTION	(Ch	CR leck (N)			COMMEN	TS	
SURFACE DAMAGE	Υ	M					
CORRECT FINISH	(8)	N					
CORROSION	Y	M					
CORRECT GRAIN DIRECTION	(Y)	M					
CORRECT MATERIAL PER M-DRAWING	(4)	N	Aston B	20			
CORRECT THICKNESS	(Y)	N.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
PHOTO REQUIRED	Y	(1)					
CORRECT REF # TO LINK CERT	(2)	N	Heat It	= 2289	533		
CORRECT MATERIAL IDENTFICATION	(7)	N	- V//				
CORRECT M# ON THE MATERIAL	(4)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	A					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	) R					
CUT SAMPLE PIECE	OF	MA	TERIAL AND	PREFORM	A HARDNE	SS CHECK.	
	F	RECO	ORD RESUL	TS BELOW	<u> </u>		
			HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READIN	NG						
			THE RESERVE OF THE PARTY OF THE	CONTRACTOR OF THE PARTY OF THE			

testers located in the Quality Office

QC 18 INSPECTION	Shall be series of a	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	38	SIGNED OFF BY:
DATE:	DEC 1.2.2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

FLEASE 2013 -07-02

13.06.12 04.01.23 01.06.21 DATE 8 8 AJS COMPLETE REFORMAT, ADDED T6610 & T8611.
ADDED AMS 4092, ASTN 8210 & ASTN 8241
ADDED MATERIAL TOLERANCE
ADD OA-A-2008 & QCA-2266
NEW ISSUE

REV. C SHEET 1 OF 1 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
RE
M6061161
SHEET 1 DATE 13.06.12 B ADD
A NEW
REV.
DESIGN
DESIGN
CHECKED
MFG. APPR.
APPROVED
DE APPR.

TI.T - DODD -

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WWV-T-700/6
OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR AMS TM BZ1 OR ASTM BZ41
M6061T6T D. DDDD IWT. TTT PURCHASE MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING SPECIFICATION:

@

PART NUMBER:

EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058 WHERE "D.DDD" = OD IN INCHES "T.TT" = WALL THICKNESS

MATERIAL TOLERANCE:

PER ANSI H35.2 🔼

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	M60617670.500w.058	ро / ватсн no.: <u>03 858 / /so20 70</u> 8
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	100''	THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500 SHEET SIZE ORDERED: WAS
		, ,

	T-		
	N	CR	8
DESCRIPTION		neck	COMMENTS
	Y/	N)	
SURFACE DAMAGE	Y		
CORRECT FINISH	(4)	N	
CORROSION	Y	W	
CORRECT GRAIN DIRECTION	(9)	N	
CORRECT MATERIAL PER M-DRAWING	(7)	N	Am54082
CORRECT THICKNESS	8	N	
PHOTO REQUIRED	Y	(1)	, ,
CORRECT REF # TO LINK CERT	8	N	Heat + 00254239 0002
CORRECT MATERIAL IDENTFICATION	(2)	Ν	
CORRECT M# ON THE MATERIAL	(Y)	Ν	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Υ		
DOES THIS REQUIRE AN		1	
EXTRUSION REPORT	Υ	(N)	

CUT SAMPLE PIECE OF				SS CHECK.	
F	RECORD RES	SULTS BELOV	$\wedge$		
	HRC	HRB	DURA	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	38 9-89	SIGNED OFF BY:
DATE:	DEC 1 2 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

FLEASE 2013-07-02

8

13.06.12 AJS COMPLETE REFORMAT, ADDED T0610 & T0611.
ADDED AMS 4083, ASTN 8210 & ASTN 8241
ADDED MATERIAL TOLERANCE
ADD GA-AZ008 & QCA-Z256
NEW ISSUE

CP 04.01.23

S. DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

THE CONTROL OF THE ACCUPACE AND SCALE TITLE 6061-T6 TUBING DRAWN AJS
CHECKED W
MFG. APPR. MAPROVED
DE APPR. DATE 13.06.12 DESIGN

COPYRIGHT © 2001 BY DAKT AEROSPACE LTD
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THE TOTAL THE THAT WE SET THE SET OF SETTING THE TOTAL WITHOUT THE PETER WITHOUT THE THE THAT IT IS

TT.T -- DODD -

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PURCHASE MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING

WW-T-700/8
OR QC-A-200/8 OR QC-A-225/8 <sup>6</sup>
OR AMS 4060 OR (MNS 4082) OR AMS 40810 OR ASTM B241

M6061T6TID.DDDIWIT.TTT

PART NUMBER:

EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058 WHERE "D.DDD" = OD IN INCHES "T.TT" = WALL THICKNESS

PER ANSI H35.2 C MATERIAL TOLERANCE:

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SPECIFICATION:

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>MGOG H670.375w.058</u> DATE: <u>NFC 127017</u>	ро/ватсн no.: <u>038581 /50267</u>
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	THICKNESS ORDERED: 0.375 THICKNESS RECEIVED: 0.375 SHEET SIZE ORDERED: V/A SHEET SIZE RECEIVED: V/A

DESCRIPTION		CR leck (N)	COMMENTS
SURFACE DAMAGE	Y	M	
CORRECT FINISH	(	N	
CORROSION	Y	(1)	
CORRECT GRAIN DIRECTION	(7)	N	
CORRECT MATERIAL PER M-DRAWING	(1)	N	Am5 4082
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y		<u>^</u>
CORRECT REF # TO LINK CERT	(8)	N	Hest # 4002504860001
CORRECT MATERIAL IDENTFICATION	0	Ν	
CORRECT M# ON THE MATERIAL	0	Ν	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(3)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ		

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	W 38 38 38	SIGNED OFF BY:
DATE:	DEC 1 2 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

REV. C SHEET 1 0F 1 SCALE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
REV. C 04.01.23 COPYRIGHT @ 2001 BY DART AEROSPACE LTD
THE COLUMN FIT IS PRIVATE AS CAPITED FILE AS EXPLISED ON THE EXPLISE COCKETS THAT IT IS
NOT 10 BE USED THE ANY NAPOSE ON COPIED OF COMMEMBIATED FOR WITHOUT 13.08.12 FLEASED 2013 -07-02 8 8 A AJS COMPLETE REFORMAT. ADDED T8610 & T8611.
ADDED AMS 4082. ASTIN 8210 & ASTM 8241.
ADDED MATERIAL TOLERANCE
ADD GGA-A2008 & QGA-A2256
NEW ISSUE TITLE 6061-T6 TUBING T.T.T DATE 13.06.12 DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR. - D.DDD -EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058 PURCHASE MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING WHERE "D.DDD" = OD IN INCHES "T.TTT" = WALL THICKNESS WW-T-700/8 OR QC-A-200/8 OR QC-A-226/8 OR AMS 4080 OR ANS 4082 OF A OR ASTM B210 OR ASTM B241 PER ANSI H352 C M6061T6T D.DDDIWTTTT MATERIAL TOLERANCE: SPECIFICATION: PART NUMBER: ۵ ပ